

REMARKS

Claims **1-20** are pending. The Examiner allowed Claims 4-5, 7-12, 16-17, and 20. The Examiner rejected Claims 1-3, 6, 13-15, and 18-19. Based on these Remarks, Applicant respectfully requests consideration of the rejected claims.

Applicant believes the Examiner entered Applicant's May 14, 2004 Amendment. If the Examiner did not do so, Applicant respectfully requests entry, and then bases these remarks thereupon.

In sum, Applicant respectfully believes the Examiner's Final Rejection and Advisory Action are in error because the Examiner failed to recognize that the prior art fails to anticipate or render obvious at least the following:

1. **partial ALU calculations**, and
2. **parallel processing**.

In the Examiner's Final Rejection, for example, the Examiner i) rejected Claims 1-3, 6, 13-15, and 18-19 under 35 U.S.C. § 103(a) as being obvious over Applicant's FIG. 1 in view of U.S. Pat. No. 5,260,890 ("Suzuki"), and ii) made an unsupported reference to U.S. Pat. No. 5,907,498 ("Rim"). With this RCE, Applicant respectfully traverses and requests withdrawal.

More specifically, ALU Operations and Overflow Detection are **dependent, serial** processes in Applicant's FIG. 1. In Suzuki's FIG. 2, on the other hand, ALU Operations and Overflow Detection are **independent, serial** processes. In contrast, each of Applicant's rejected independent claims contains **partial ALU calculations** and **parallel processing** language, which Applicant asserts is not anticipated or rendered obvious by Applicant's FIG. 1, Suzuki, Rim, or any combination thereof. For example, Applicant asks the Examiner to consider Applicant's claim language, as partially indicated here:

Claim	Partial ALU Calculation Language	Parallel Processing Language
Claim 1	performing at least partially the arithmetic operation	substantially in parallel
Claim 2	performing at least partially the multiplication	substantially in parallel
Claim 3	at least partially multiplying	substantially in parallel
Claim 6	performing at least a partial multiplication	substantially in parallel
Claim 13	at least partially multiplying	substantially in parallel
Claim 15	at least partially multiplying	substantially in parallel

Since the Examiner is required to consider *all words* in a claim when determining patentability, Applicant respectfully asserts that neither dependent, serial processes (i.e.,

Applicant's FIG. 1) nor independent, serial processes (i.e., Suzuki's FIG. 2) anticipate or render obvious Applicant's **partial ALU calculations** and **parallel processing**, as Applicant disclosed and claimed throughout the entirety of Applicant's application. Since i) serial and parallel processing are inapposite, and the latter is not anticipated or rendered obvious by the former, and ii) the art fails to disclose or suggest partial ALU calculations altogether, Applicant respectfully asserts that Applicant's FIG. 1 in view of Suzuki cannot, and therefore does not, anticipate or render obvious Applicant's invention.

Accordingly, Applicant respectfully asserts that none of Applicant's FIG. 1, Suzuki, Rim, or any other cited art—whether individually or in combination—anticipates or renders obvious Applicant's **partial ALU calculations** and **parallel processing**, as Applicant disclosed and claimed throughout the entirety of Applicant's application. Thus, Applicant respectfully asserts that all of Applicant's independent and dependent claims are novel and non-obvious.

Earnestly believing Claims 1-3, 6, 13-15, and 18-19 recite patentable subject matter, Applicant respectfully requests reconsideration, and allowance, of the same.

CONCLUSION

Applicant believes Applicant has overcome the Examiner's rejection of Claims 1-3, 6, 13-15, and 18-19. Moreover, Applicant believes Claims 1-20 are patentable. Thus, Applicant respectfully submits that all pending claims are in a condition for allowance, which Applicant respectfully requests. Applicant also seeks notification to that effect. Applicant also believes this Response should allow the Examiner to allow the above-referenced patent application to issue as a U.S. patent without further amendments to the specification or claims.


If questions arise, please telephone the undersigned attorney.

EXTENSION OF TIME

The proceedings herein are for a patent application, and the provisions of 37 CFR 1.136 apply. Applicant believes this Response requires a one (1) month extension of time. However, Applicant hereby requests a conditional petition in case Applicant inadvertently overlooked the need to petition for a different extension of time, or any other required fee, in which case Applicant further requests that any and all applicable charges be charged to Applicant's Deposit Account No. 23-2053. Applicant intends this authorization to be carried throughout the pendency of this Application, in full accordance with 37 CFR 1.136.

Respectfully submitted,

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